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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/563,596	01/06/2006	Motohiro Suzuki	283923US0PCT	3254
22850	7590	03/18/2008	EXAMINER	
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C.			EASHOO, MARK	
1940 DUKE STREET				
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			1796	
		NOTIFICATION DATE	DELIVERY MODE	
		03/18/2008	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 10/563,596	Applicant(s) SUZUKI ET AL.
	Examiner MARK EASHOO	Art Unit 1796

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 06 December 2007.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-6 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _____
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____
- 5) Notice of Informal Patent Application
 6) Other: _____

DETAILED ACTION***Claim Rejections - 35 USC § 103***

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamabe et al. (US 5,709,956) in view of Yamane et al. (US 6,465,099) when taken with Masuda et al. (US 5,994,439).

Regarding claims 1, 2 and 4, Yamabe et al. teaches a pelletized (Col. 7, lines 8-10) resin composition (referred to as D in the claims and hereinafter, composition D) comprising from 5 to 75 weight percent of the vinyl chloride resin (A), from 5 to 70 weight percent of the partially crosslinked acrylonitrile-butadiene copolymer (C), and from 10 to 65 weight percent of the plasticizer (B) (Col. 6, lines 24-27). The average degree of polymerization of the vinyl chloride is preferably at least 2000 (Col. 5, lines 43-50), making the vinyl chloride have a high average polymerization degree.

Yamabe et al. does not teach a powder composition comprising a vinyl chloride resin having a low average polymerization degree and a plasticizer (referred to as E in the claims and hereinafter, composition E) being mixed with composition D to form a combined composition. However, Yamane et al. does teach a powder (Col. 9, lines 29-30) vinyl chloride resin composition (E) (Col. 3, line 6) comprising 100 parts by weight of a vinyl chloride resin (Col. 3, lines 10-11) and a plasticizer (Col. 9, line 20). The average polymerization degree of the vinyl chloride resin used in this composition is preferably 450-1800 (Col. 5, lines 11-13), making the vinyl chloride resin have a low average polymerization degree. Yamabe et al. and Yamane et al. are combinable because they are from the same field of endeavor, namely, vinyl chloride compositions. At the time of the invention, a person of ordinary skill in the art would have found it obvious to combine composition E, as taught by Yamane et al., with composition D, as taught by Yamabe et al., in order to make a combined composition, and would have been motivated to do so because, as evidenced by Masuda et al.,

having a composition combining vinyl chloride resins having different degrees of average polymerization gives the desired properties that come with each individually such as strength and processibility (Col. 2, lines 26-35).

Regarding claim 3, Yamabe et al. teaches that the partially crosslinked acrylonitrile/butadiene copolymer preferably has from 20 to 45 weight percent acrylonitrile content. Yamabe et al. additionally teaches that the copolymer is insoluble in methyl ethyl ketone.

Yamabe et al. does not teach that the copolymer contains from 55 to 80% of butadiene. However, it follows that if 20 to 45 percent of the copolymer is acrylonitrile, then 55 to 80% of the copolymer, the balance of the copolymer, is butadiene.

Yamabe et al. does not teach that the methyl ethyl ketone insoluble content is from 20 to 95%. However, it is well known in the art to change result effective variables such as an insolubility content. At the time of the invention, a person of ordinary skill in the art would have found it obvious to have found the optimized range of the insoluble content through routine experimentation, as is known in the art, for the copolymer, as taught by Yamabe et al., and would have been motivated to do so in order to obtain the desired properties of the copolymer. See MPEP §2144.05.

Regarding claim 5, Yamabe et al. does not teach that the blend ratio of composition D to composition E is from 5/95 to 95/5. However, it is well known in the art to change result effective variables such as concentrations. At the time of the invention, a person of ordinary skill in the art would have found it obvious to obtain the optimized blending range, as is known in the art, for the compositions, as taught and combined above, and would have been motivated to do so in order to obtain the desired properties of the overall composition. See MPEP §2144.05.

Regarding claim 6, Yamabe et al. does not teach that the average size of composition D is from 1 to 8 mm. However, it is well known in the art to change result effective variables such as length. At the time of the invention, a person of ordinary skill in the art would have found it obvious to obtain the optimized the

length, as is known in the art, for composition D, as taught above, and would have been motivated to do so in order to obtain the desired properties of composition D. See MPEP §2144.05.

Yamabe et al. does not teach that the average particle diameter of composition E is from 100 to 2000 μm . However, it is well known in the art to change result effective variables such as diameter size. At the time of the invention, a person of ordinary skill in the art would have found it obvious to obtain the optimized diameter size, as is known in the art, for composition E, as taught above, and would have been motivated to do so in order to obtain the desired properties of composition E. See MPEP §2144.05.

Response to Arguments

Applicant's arguments filed December 6, 2007 have been fully considered but they are not persuasive, because:

A) In response to applicant's argument that Yamabe et al. and Yamane et al. are nonanalogous art, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, Yamabe et al. and Yamane et al. are combinable as they are concerned with the same field of endeavor, namely extruded vinyl chloride resin compositions. Additionally, applicant's argument that Masuda et al. is non-analogous art is not germane, as it is only provided as an evidentiary reference to show the desirability of combining different molecular weight resins to achieve a blending of the properties.

B) Applicants argument of unexpected results is not persuasive. In order to argue unexpected results, applicant must provide data that shows that the results are unexpected, not merely superior. No such data has been provided in the instant application. See MPEP § 2144.09.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Correspondence

Any inquiry concerning this communication should be directed to MARK EASHOO at telephone number (571)272-1197.

/Mark Eashoo/
Supervisory Patent Examiner, Art Unit 1796
1-Mar-08